Australian Government

Assessment Requirements for AHCARB320 Install tree support systems

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has installed three different types of tree support systems according to a specification, including:

- steel cable
- textile or synthetic cable
- bracing.

There must also be evidence that the individual has:

- interpreted plans and specifications and determined the materials, tools and equipment required for tree support system work
- identified health, safety and environmental hazard and risks and implemented controls for the installation, including:
  - conducted and completed a job safety analysis (JSA)
  - prepared and used personal protective equipment (PPE)
  - maintained awareness of above-ground hazards while performing work
- assembled tree support system ready for installation
- examined structural integrity of the tree
- determined and confirmed the safest access to location of the tree support system
- pruned tree to aid tree support system installation
- accessed the tree safely and secured into work position
- removed, checked, maintained, cleaned, sanitised and stored tools and equipment according to biosecurity procedures
- recorded and reported completed works.

All tree support systems work is required to be performed according to preferred industry practices (as outlined in the Companion Volume).

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- preferred industry practices (as outlined in the Companion Volume) for tree support systems
- the effect of pruning on tree growth, habit and form
- tree anatomy and tree physiology related to tree support systems, including:
  - pruning techniques appropriate to tree species and their response
  - natural habit and form of trees
  - visual tree assessment
  - tree defects and tree support system solutions
- tree support systems principles and techniques suited to tree species, including:
  - steel cabling
  - synthetic cabling
  - bracing
- impact of tree support system on trees, including:
  - the impact on the tree's natural range of movement
  - the impact on the tree's strategy of flexibility
  - the impact on the tree's formation of reactive growth
- tree support system materials, tools and equipment, including:
  - preparation of steel cabling systems and terminations, including eyes, swaging, wire whipping
  - components and preparation of synthetic cabling systems
  - hardware, including installation requirements for eye bolts, lag hooks, wire stops and grips
  - cable types and sizes, tensile strength and selection criteria as related to arborist specifications
  - preparation of bracing components, including types of rod, threading, terminations and tensile strength
  - cable tension and tensioning methods
  - finishing techniques of cables for aesthetics and function
  - finishing techniques of bracing for safety, aesthetics and function
  - checks and adjustments to installed systems over time
- identification of workplace health and safety hazards, risk assessment and risk control application
  - selection of suitable PPE
  - completing a job safety analysis (JSA)
  - first aid and rescue personnel, equipment and procedures applicable to tree work
  - monitoring and managing above-ground hazards
  - electrical safety

- principles of compartmentalisation of decay in trees (CODIT) in relation to the installation of cables and bracing
- hygiene practices and biosecurity when cable bracing, including:
  - reasons for managing hygiene
  - biosecurity principles and procedures
- record keeping and reporting procedures for cable bracing.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - trees with defects requiring cabling and bracing as stipulated in the performance evidence
- resources, equipment and materials:
  - equipment to access a working position for installation of cables and bracing
  - PPE
  - safety equipment, including first aid and emergency response equipment
  - tools and equipment for preparing wire and synthetic ropes, attaching cables to trees and installation of braces
- specifications:
  - workplace and manufacturer documentation for safe operation, cleaning and storage of tree support system equipment
  - preferred industry practices (as outlined in the Companion Volume) for tree support systems
  - arboriculture hygiene and biosecurity standards
  - specifications for the installation of tree support system for specific tree defects
- relationships:
  - work team.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. In particular, assessors must have:

- arboriculture vocational competencies at least to the level being assessed
- current arboriculture industry skills directly relevant to the unit of competency being assessed.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72